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Through the use of numerical methods

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many problems can be solved that would otherwise be thought to be insoluble. In the past, solving problems numerically often meant a great deal of programming and numerical problems. Programming languages such as Fortran, Basic, Pascal and C have been used extensively by scientists and engi-

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J.D. Spitler, M. Bernier, in Advances in Ground-Source Heat Pump Systems, 2016. 2.2.2 Numerical methods.

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Numerical methods, eg, finite difference method, finite element method, finite volume method, are not usually feasible for design purposes. This is due to the widely varying length-scales and time-scales that are necessary to treat the heat transfer in the borehole and surrounding ground.

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Numerical Methods: Problems and Solutions by S.R.K. Iyengar

The overall goal of the field of numerical analysis is the design and analysis of techniques to give approximate but accurate solutions to hard problems, the variety of which is suggested by the following: Advanced numerical methods

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are essential in making numerical weather prediction feasible.

Numerical analysis - Wikipedia

In such cases, a numerical approach gives us a good approximate solution. The General Initial Value Problem. We are trying to solve problems that are presented in the following way:

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$\frac{dy}{dx}=f(x,y)$; and $y(a)$ (the initial value) is known, where $f(x,y)$ is some function of the variables x , and y that are involved in the problem.

11. Euler's Method - a numerical solution for Differential ...

A numerical method to solve equations will be a long process. We would like to

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know, if the method will lead to a solution (close to the exact solution) or will lead us away from the solution. If the method, leads to the solution, then we say that the method is convergent.

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Numerical methods offer an

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approximation of solutions to
Mathematical problems where: i)
analytical methods of solutions may not
exist, and ii) data available does not
admit the applicability of ...

**What are the advantages of
numerical method over ...**

Numerical methods for ordinary

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differential equations are methods used to find numerical approximations to the solutions of ordinary differential equations (ODEs). Their use is also known as "numerical integration", although this term can also refer to the computation of integrals. Many differential equations cannot be solved using symbolic computation ("analysis").

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